



2/16/07

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Masakazu Kawai et al.
APPLICATION NO.: 10/642,477
FILING DATE: August 15, 2003
TITLE: Method and Processor for Obtaining Moments and Torques in a
Biped Walking System
EXAMINER: Jeffrey Gerben Hoekstra
GROUP ART UNIT: 3736
ATTY. DKT. NO.: 20911-08172

CERTIFICATE OF MAILING

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Dated: 1/10/07

By: A.C. Smith
Albert C. Smith, Reg. No.: 20,355

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO/SB/08A listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

- ☒ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
 - ☒ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
 - ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; (2) a notice of allowance under 37 CFR § 1.311; or (3) an action that otherwise closes prosecution in the application, and:
 - ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement;
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this

certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

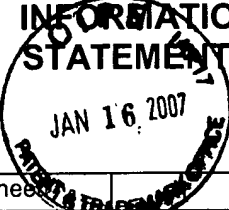
- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(d); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☐ Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.
- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☒ Copies of any foreign patent documents and non-patent literature cited herein are enclosed.
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☐ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
MASAKAZU KAWAI ET AL.

Dated: 1/10/07

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Application No.	10/642,477
		Filing Date	August 15, 2003
		First Named Inventor	Masakazu Kawai
		Art Unit	3736
		Examiner Name	Jeffrey Gerben Hoekstra
Sheets 1 of 2	Attorney Docket Number	20911-08172	

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number – Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A1	US-7,112,938	09-26-2006	Takenaka et al.
	A2	US-2004/0193318 A1	09-30-2004	Ito
	A3	US-6,076,025	06-13-2000	Ueno
	A4	US-6,045,524	04-04-2000	Hayashi et al.
	A5	US-5,942,869	08-24-1999	Katou et al.
	A6	US-5,706,589	01-13-1998	Marc
	A7	US-5,323,549	06-28-1994	Segel et al.

FOREIGN PATENT DOCUMENTS					
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OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS					
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	C1	"Berkeley Researchers Developing Robotic Exoskeleton That Can Enhance Human Strength and Endurance," ScienceDaily LLC, 1995-2004, [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL: http://bleex.me.berkeley.edu/bleexhistPDFs/sciencedaily.pdf >			
	C2	DURFEE, W.K., "Preliminary Design and Simulation of a Pneumatic, Stored-Energy, Hybrid Orthosis for Gait Restoration," Proceedings of IMECE04, 2004 ASME International Mechanical Engineering Congress, November 13-20, 2004, [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL: http://www.me.umn.edu/~wkdurfee/publications/IMECE2004-60075.pdf >			
	C3	International Search Report and Written Opinion, PCT/US06/11727, November 9, 2006, 9 pages.			
	C4	ISAACS, P.M. et al., "Controlling Dynamic Simulation with Kinematic Constraints, Behavior Functions, and Inverse Dynamics," Computer Graphics, July 1987, pp. 215-224, Vol. 21, No. 4.			
	C5	MADIGAN, R.R., "Ankle-Foot Orthoses (AFO's) in Spastic Cerebral Palsy," Fillauer LLC, [online] [Retrieved on October 9, 2006] Retrieved from the			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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20911/08172/DOCS/1684901.1

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT****Complete if Known**

Application No.	10/642,477
Filing Date	August 15, 2003
First Named Inventor	Masakazu Kawai
Art Unit	3736
Examiner Name	Jeffrey Gerben Hoekstra
Attorney Docket Number	20911-08172

Sheet	2	of	2
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OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
		Internet<URL:http://www.fillauer.com/education/ED_afo.html#dynamic>	
	C6	PRATT, G.A. et al., "Active Orthotics for Helping the Neuromuscularly Impaired to Walk," [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL:http://www.vcl.uh.edu/~rcv03/materials/grant/9733740.1064791086.pdf>	
	C7	"Regenerative Foot Braking," [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL:http://www.halfbakery.com/idea/regenerative_20foot_20braking#1069693200>	
	C8	"Sensorless Fet Element DC Motor Driver," [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL:http://robotx.sourceforge.net/bridge/bridge.shtml>	
	C9	TROST, F.J., "Energy-Storing Feet," JACPOC, 1989, Vol. 24, No. 4, [online] [Retrieved on October 9, 2006] Retrieved from the Internet<URL:http://jacpoc.oandp.com/library/1989_04_082.asp>	

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TRANSMITTAL FORM <i>(to be used for all correspondence during pendency of filed application)</i>		Application Number	10/642,477
		Filing Date	August 15, 2003
		First Named Inventor	Masakazu Kawai
		Group Art Unit Number	3736
		Examiner Name	Jeffrey Gerben Hoekstra
Total Number of Pages in This Submission	8*	Attorney Docket Number	20911-08172

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